Monatshefte für Chemie Chemical Monthly

An International Journal of Chemistry

Vol. 138/2007



Monatshefte für Chemie Chemical Monthly

Österreichische Akademie der Wissenschaften (Mathematisch-Naturwissenschaftliche Klasse) und Gesellschaft Österreichischer Chemiker

Editorial Board

H. Falk, Linz (Editor-in-Chief)

R. Breinbauer, Leipzig

H. Gamsjäger, Leoben

F. Pittner, Wien

U. Schubert, Wien

P. Schuster, Wien

Regional Editors

P. Braunstein, Strasbourg

E. Königsberger, Murdoch

R. Neier, Neuchâtel

A. Pfitzner, Regensburg

K. Sawada, Niigata

Advisory Board

W. M. Abdou, Cairo

U. Brinker, Wien

W. Buchberger, Linz

L. H. Gade, Heidelberg

G. Grampp, Graz

G. Gritzner, Linz

E. Haslinger, Graz

O. Hofer, Wien

O. Kappe, Graz

B. Keppler, Wien

G. Kollenz, Graz

B. Kräutler, Innsbruck

C. Kratky, Graz

D. A. Lightner, Reno, NV

H. Lischka, Wien

R. Micura, Innsbruck

C. R. Noe, Wien

J. Schantl, Innsbruck

H. Schmidbaur, München

Managing Editor: P. Gärtner, Wien

"Monatshefte für Chemie/Chemical Monthly" was conceived in its very beginnings as an Austrian journal of chemistry. However, during recent times it was gradually transformed into an international journal including all branches of chemistry. It features the most recent research in analytical, inorganic, medicinal, organic, physical, structural, and theoretical chemistry, including the chemically oriented areas of biochemistry. "Monatshefte für Chemie/Chemical Monthly" publishes refereed original papers and emphasizes a rapid publication section entitled "Short Communications". Invited reviews, symposia in print, and issues devoted to special fields will also be included.

"Monatshefte für Chemie/Chemical Monthly" offers

- A PDF of each paper and a copy of the issue free of charge

- publication without page charges

 expedited publication as "short communication" (to be published within three months after acceptance)

Author Index

Abaee M. Saeed, s. Mojtahedi Mohammad M.

Abdel-Aziz Hatem A., s. Hamdy Nehal A.

Abdel-Latif Ehab: Waste-Free Solid-State Organic Syntheses: Solvent-Free Alkylation, Heterocyclization, and Azo-Coupling Reactions 771

Abdel-Latif Nehad A.: Synthesis, Analgesic, and Antiparkinsonian Profiles of Some Pyridine, Pyrazoline, and Thiopyrimidine Derivatives 715

Abd El-Latif Nehad A.: Synthesis, Reactions, and Pharmacological Screening of Heterocyclic Derivatives Using Nicotinic Acid as a Natural Synthon 550

Abdel-Megeed Mohamed F.: 3-Arylazo-2-thioxo-2,3dihydro-1*H*-quinazolin-4-ones as Azodisperse Dyes for Dyeing Polyester Fabrics 153

Abdel-Megied Ahmed E.-S., s. Abdel-Rahman Adel A.-H.

Abdel-Rahman Adel A.-H., s. Ali Ibrahim A. I.

Abdel-Rahman Adel A.-H., s. El-Essawy Farag A.

Abdel-Rahman Adel A.-H.: Synthesis and Antimicrobial Evaluation of Some Chalcones and Their Derived Pyrazoles, Pyrazolines, Isoxazolines, and 5,6-Dihydropyrimidine-2-(1*H*)-thiones 889

Abdollahi-Alibeik Mohammad, s. Moghadam Majid

Abdulla Mohamed M., s. Abdel-Latif Nehad A.

Abdulla Mohamed M., s. Amr Abd El-Galil E.

Abdulla Mohamed M., s. Shalaby Ahmed F. A.

Aboukull Mansour, s. El-Sadek Mohamed E.

Abu Mahthieh Ahmad M., s. Abu Safieh Kayed A.

Abu Safieh Kayed A.: Synthesis of 5-Substituted 1,3-Dimethylpyrazolo[4,3-e][1,2,4]triazines 157

Achilles Karin, s. Elriati Ali

Aghaaliakbari Behnaz, s. Shaabani Ahmad

Aghapoor Kioumars: The Willgerodt-Kindler Reaction in Water: High Chemoselectivity of Benzaldehydes over Acetophenones 61

Aghvami Majid, s. Mohanazadeh Farajollah

Albericio Fernando, s. Burger Klaus

Ali Ibrahim A. I.: Amino Acid Derivatives, IV [1]: Synthesis and Antiviral Evaluation of New α -Amino Acid Esters Bearing Methyl β -D-Ribofuranoside Side Chain 909

Ali Omar M., s. Ali Ibrahim A. I.

Ali Omar M.: Synthesis of N²-Arylisocytidines and N²-Aryl-2'-deoxyisocytidines 917

Alizadeh Mohammad H., s. Tayebee Reza

Alizadeh Mohammad H.: A Method for the Acetylation of Alcohols Catalyzed by Heteropolyoxometallates 165

Al-Nowaiser Fawzia M., s. El-Mossalamy El-Sayed H. Alp Hüseyin, s. Temel Hamdi

Al-Said Naim H.: Synthesis of a C-2 Stapled Bis-Lexitropsin 573

Al-Thabaiti Shaeel A., s. El-Mossalamy El-Sayed H. Al-Youbi Abdul O., s. El-Mossalamy El-Sayed H.

Amr Abd El Galil E., s. Shalaby Ahmed F. A.

Amr Abd El-Galil E., s. Abd El-Latif Nehad A.

Amr Abd El-Galil E.: Synthesis, Reactions, and Antiinflammatory Activity of Heterocyclic Systems Fused to a Thiophene Moiety Using Citrazinic Acid As Synthon 699

Antimicrobial Activity and Structural Study of Disubstituted Thiourea Derivatives 511

Arsanious Mona H. N., s. Boulos Leila S.

Arshadi Sattar, Bekhradnia Ahmad R.

Asadolah Karim: CuSO₄ as a Mild, Green, and Efficient Catalyst for the One-pot Conversion of *THP* Ethers to Acetates 867

Ayoub Mikdad T., s. Abu Safieh Kayed A.

Azaam Mohamed M., s. Abdel-Megeed Mohamed F.

Azimi Seyyedeh Cobra, s. Dabiri Minoo

Baghbanzadeh Mostafa, s. Dabiri Minoo

Bahramian Bahram, s. Mirkhani Valiollah Bahramnejad Mahboobeh, s. Dabiri Minoo

Bakhtiari Khadijeh, s. Heravi Majid M.

Bakhtiari Khadijeh, s. Oskooie Hossein A.

Bamoharram Fatemeh F., s. Heravi Majid M.

Bandgar Babasaheb P.: 2,4,6-Trichloro-1,3,5-triazine Catalyzed Chemoselective Transthioacetalization of Aldehyde Acetals and Oxathioacetals 67

Baranac Jelisaveta M., s. Dimitrić Marković Jasmina M. Barros Ana I. R. N. A.: Reductive Coupling Reactions of 2-Nitrochalcones and their β-Hydroxy-analogues: New Syntheses of 2-Arylquinoline and 2-Aryl-4-hydroxyquinoline Derivatives 585

Bartmess John, s. Johnson Keith E.

Baschel Suliman N., s. El-Mossalamy El-Sayed H.

Bastos Rodrigo M., s. Cunha Silvio

Bazgir Ayoob, s. Dabiri Minoo

Behbahani Farahnaz K., s. Mojtahedi Mohammad M.

Bekhradnia Ahmad R.: Conformational Analysis, Infrared, and Fluorescence Spectra of 1-Phenyl-1,2propandione 1-oxime and Related Tautomers: Experimental and Theoretical Study 725

Belošević Svetlana K., s. Matović Zoran D.

Benmorad Tina, s. Heravi Majid M.

Berg Rolf W.: Raman Spectroscopy and Ab-Initio Modei Calculations on Ionic Liquids 1045

Berkessel Albrecht, s. Mečiarová Mária

Bettigeri Sampada V. s. Bandgar Babasaheb P.

- Binder Wolfgang H.: Surface-Modified Superparamagnetic Iron-Oxide Nanoparticles 315
- Boča Miroslav, s. Kucharík Marián
- Bobal Pavel, s. Loiseau François
- Bobal Pavel, s. Simone Jean-Mary
- Boffa Luisa, s. Lévêque Jean-Marc
- Bogel-Łukasik Rafał: Sustainable Processes Employing Ionic Liquids for Secondary Alcohols Separation 1137
- Bonrath Werner, s. Lévêque Jean-Marc
- Bösmann Andreas: Enhancing Task Specific Ionic Liquids' Thermal Stability by Structural Modification 1159
- Boulos Leila S.: Comparative Studies on the Behavior of 3-Amino-2-phenyl- 4(3H)-quinazolinone Towards Some Organophosphorus Reagents 979
- Braun Juliane: Investigations of the Rheology and Reactivity of Extrudable Wood-Resin Compounds 337
- Brown Herbert C., s. Roy Chandra D.
- Brun Reto, s. Seebacher Werner
- Buazar Foad, s. Kassaee Mohammad Z.
- Buchmeiser Michael R., s. Imlinger Nicolas C.
- Budka Jan, s. Kříž Jaroslav
- Budzowski Artur: Synthesis of Polycyclic Monothioimides *via* a Domino Reaction of β-Aminocycloalkenethioamides 1257
- Bugarčić Živadin D., Rosić Jovana
- Bugarcić Zorica M.: An Efficient Route to Phenylselenoethers in the Presence of Ag₂O 985
- Bugarcić Zorica M.: An Improved Phenylselenoetherification of Pent-4-en-1-ol 149
- Burger Klaus: Partially Fluorinated Heterocycles from 4,4-Bis(trifluoromethyl)-hetero-1,3-dienes via C-F Bond Activation – Synthesis of 2-Fluoro-3-(trifluoromethyl)furans 227
- Burgstaller Christoph: Processing of Thermal Sensitive Materials – a Case Study for Wood Plastic Composites 343
- Cai Yueqin: Efficient *Baylis-Hillman* Reaction *via* a 1,4-Diazabicyclo[2.2.2]octane-based Ionic Catalyst 1163
- Callado Luis F., s. Silva Vera L. M.
- Canongia Lopes José N., s. Visak Zoran P.
- Carcache David, s. Loiseau François
- Carcache David, s. Simone Jean-Mary
- Casarin Maurizio: A Theoretical Study of Amine Bonding in Titanium Alkoxide Adducts 1217
- Cavaleiro José A. S., s. Silva Vera L. M.
- Cetinkaya Bekir, s. Özdemir İsmail
- Chaichi Mohammad Javad, s. Rostami Abbas Ali
- Chakrabarty Manas: Tosic Acid-on-Silica Gel: A Cheap and Eco-friendly Catalyst for a Convenient One-pot Synthesis of Substituted Benzimidazoles 1279

- Chaturvedi Devdutt: An Efficient, One-Pot Synthesis of Carbamates from the Corresponding Alcohols Using Mitsunobu's Reagent 57
- Chernega Alexander N., s. Dotsenko Victor V.
- Chiappe Cinzia: Nanostructural Organization of Ionic Liquids: Theoretical and Experimental Evidences of the Presence of Well Defined Local Structures in Ionic Liquids 1035
- Christoffers Jens, s. Rosiak Anna
- Çolak Naki: The Synthesis of Novel Methotrexate-like Compounds 1283
- Concha Raquel G., s. Goenaga José M.
- Costa Giselle A. N., Cunha Silvio
- Cravotto Giancarlo, s. Lévêque Jean-Marc
- Cunha Silvio: Synthesis and Structural Studies of 4-Thioxopyrimidines with Antimicrobial Activities 111
- Ćurčić Svetlana, s. Matović Zoran D.
- Cvijović Milica, s. Matović Zoran D.
- Dabiri Minoo: Alum (KAl(SO₄)₂ · 12H₂O): An Efficient and Inexpensive Catalyst for the One-pot Synthesis of 1,3,4-Oxadiazoles under Solvent-Free Conditions 1253
- Dabiri Minoo: Alum (KAl(SO₄)₂ · 12H₂O) Catalyzed One-Pot Synthesis of Coumarins under Solvent-Free Conditions 997
- Dabiri Minoo: An Efficient and Rapid Approach to Quinolines via Friedländer Synthesis Catalyzed by Silica Gel Supported Sodium Hydrogen Sulfate Under Solvent-Free Conditions 659
- Dabiri Minoo: Diammonium Hydrogen Phosphate as an Efficient and Inexpensive Catalyst for the Synthesis of Bis(indolyl)methanes under Solvent-Free Conditions 595
- Dabiri Minoo: Ionic Liquid Promoted Eco-friendly and Efficient Synthesis of 2,3-Dihydroquinazolin-4(1*H*)-ones 1191
- Dabiri Minoo: Oxalic Acid: An Efficient and Cost-Effective Organic Catalyst for the *Friedländer* Quinoline Synthesis under Solvent-Free Conditions 1249
- Danielik Vladimír, s. Kucharík Marián
- Darabi Hossein R., s. Aghapoor Kioumars
- Darvishi Maria, s. Shaabani Ahmad
- Dašić Marina L., s. Dimitrić Marković Jasmina M.
- da Silva Cleuza C., s. Cunha Silvio
- Daskeviciene Maryte, s. Getautis Vytautas
- Daskeviciene Maryte, s. Stumbraite Jolanta
- de Haan Ancié B., s. Meindersma G. Wytze
- de Oliveira Cecília M. A., s. Cunha Silvio
- de Souza Neta Lourdes C., s. Cunha Silvio
- Degutyte Rimgaile, s. Getautis Vytautas
- Degutyte Rimgaile, s. Stumbraite Jolanta

Deng Jie, s. Jia Dingxian

Dennehy Mariana: Synthesis and Spectroscopic Characterization of Two New Thiosaccharinate Salts. Molecular Structure of Bis(triphenylphosphine)iminium thiosaccharinate, PNP(tsac) 669

Desai Uday V.: Lithium Tetrafluoroborate-Catalyzed Solventless Synthesis of α -Aminonitriles 759

Dey Sanjeev K.: Amphiphilic Dipyrrinones 687

Dias André F. R., s. Barros Ana I. R. N. A.

Dimitrić Marković Jasmina M.: Delphinidin-Aluminum(III) Complexes in Aqueous and Non-Aqueous Media: Spectroscopic Characterization and Theoretical Study 1225

Divac Vera M., s. Bugarčić Zorica M.

Djuran, Miloš I., Rosić Jovana

Dönnecke Daniel, s. Gillies Glenn

Doridot Gabriel, s. Saaidi Pierre-Loïc

Dotsenko Victor V.: 1-(Cyanoacetyl)-3,5-dimethylpyrazole as Active Methylene Compound in Hantzschtype Pyridine Synthesis: A Convenient and Highly Effective Approach to 3,5-Dicyano-4-(het)aryl-6oxo-1,4,5,6-tetrahydropyridine-2-thiolates 607

Dotsenko Victor V.: A Double Mannich-type Reaction in the 1,4,5,6-Tetrahydropyridine-2-thiolate Series: A Convenient Approach to Functionalized 3,7-Diazabicyclo[3.3.1]nonane Derivatives 489

Dotsenko Victor V.: An Efficient Mannich-Type One-Synthesis of 3.5,7,11-Tetraazatricyclo [7.3.1.0^{2.7}]tridec-2-ene Derivatives Starting from Functionalized 1,4-Dihydropyridines 35

Draye Micheline, s. Lévêque Jean-Marc

Duretek Ivica, s. Braun Juliane

Dybal Jiří, s. Kříž Jaroslav

Dybal Jiří: Contribution to the Protonation of a Calix[4]arene: DFT Calculated Structure of Protonated p-tert-Butylcalix[4]arenetetrakis(N,N-diethylacetamide) 541

Dybal Jiří: Stability and DFT Calculated Structure of Protonated Tetraethyl p-tert-Butyltetrathiacalix[4]arenetetraacetate in the cone Conformation 1239 Dzevenko Mariya V., s. Zaremba Vasyl' I.

Echeverría Gustavo A., s. Dennehy Mariana

El-Abadelah Mustafa M., s. Abu Safieh Kayed A.

El-Essawy Farag A.: Synthesis of 1,2,4-Triazol-3vlmethyl-1.3.4-Oxa-and -Thiadiazol-2-ylmethyl-1H-[1,2,3]-triazolo[4,5-d]pyrimidinediones 777

Elguero José, s. Silva Vera L. M.

El-Hiti Gamal A., s. Abdel-Megeed Mohamed F.

El-Kashef Hussein: On the Synthesis of Pyrrolobenzo[b]thieno[1,4]diazepines 469

El-Mossalamy El-Sayed H.: Radiation Polymerization of 4-(Acryloylamido)benzonitrile: Zinc and Copper Complexes 853

Elriati Ali: β-Lactam Derivatives as Enzyme Inhibitors: Peptidic Derivatives of (RS)-2-Oxo-4-phenylazetidine-1-alkanoic Acids 627

El-Sabbagh Osama I., s. El-Sadek Mohamed E.

El-Sadek Mohamed E.: Synthesis of Hexahydro-1H-pyrido[3,2-c]azepines as Hypotensive Agents of Expected Calcium-Channel Blocking Activity

El-Samahy Fatma A., s. Osman Fayez H.

Emanuel Makrlík, s. Dybal Jiří

Enchev V., s. Getsova M.

Endesfelder Andreas, s. Braun Juliane

Endesfelder Andreas, s. Wagner Daniel

Estager Julien, s. Lévêque Jean-Marc

Fakhr Issa M. I., s. Hamdy Nehal A.

Falk Heinz, s. Fendler Karoline

Fang Dong, s. Gong Kai

Farag Ahmad M., s. Hamdy Nehal A.

Farhangi Elham, s. Shaabani Ahmad

Fazeli Azadeh, s. Movassagh Barahman

Fendler Karoline: The Thermal Diastereomerization of the Tryptophane-Derived Green Fluorescent Protein Chromophore 859

Fischer Kai, s. Wagner Peter

Foroughifar Naser, s. Mobinikhaledi Akbar

Forozani Mehdi, s. Mohanazadeh Farajollah

Frederix Filip, s. Hahn Christoph D.

Fric Helmut, s. Ivanovici Sorin

Friesenbichler Walter, s. Braun Juliane

Fuchs Annett, s. Burger Klaus

Galán Sánchez Lara M., s. Meindersma G. Wytze

Gao Guohua, s. Cai Yuegin

Gavrilović Mariana P., s. Bugarčić Zorica M.

Gavrilović Marijana P., s. Bugarčić Zorica M.

Gayol Ana, s. Goenaga José M.

Getautis Vytautas, s. Stumbraite Jolanta

Getautis Vytautas: Synthesis and Photophysical Properties of Ferrocene Containing Monomer and Poly-

Getautis Vytautas: Synthesis of 1,2-Diphenylpyrazolidin-4-ol and its Derivatives 477

Getautis Vytautas: Synthesis of a Bifunctional 1,1'-Diphenyl-1,2,3,4-tetrahydroquinoline Derivative: 1,1'-Diphenyl-1,2,3,4,1',2',3',4'-octahydro-6,6'biquinolinyl-3,3'-diol 1293

Getsova M.: Cerium(III/IV) and Cerium(IV)-Titanium(IV) Citric Complexes Prepared in Ethylene Glycol Medium 389

Ghazanfarpour-Darjani Majid, s. Yavari Issa

Ghodrati Keivan, s. Hosseinzadeh Rahman

Gillies Glenn: How to Control the Chemoselectivity of the Catalytic Formation of Chiral γ -Lactams or 2,3-

- Disubstituted Pyrroles by the Choice of Solvent 683
- Gmouh Said, s. Hassine Fatima
- Goenaga José M.: Effect of Temperature on Thermophysical Properties of Ethanol + Aliphatic Alcohols (C₄-C₅) Mixtures 403
- Gong Hong, s. Wang Min
- Gong Kai: Basic Functionalized Ionic Liquid Catalyzed One-pot *Mannich*-type Reaction: Three Component Synthesis of β-Amino Carbonyl Compounds 1195
- Gossauer Albert, s. Papamicaël Cyril A.
- Griesser Thomas: Photoreactive Polynorbornene Bearing 4-(Diphenylamino)benzoate Groups: Synthesis and Application in Electroluminescent Devices 269
- Gruber Hermann J., s. Hahn Christoph D.
- Gschösser Sigrid, s. Hannak Renate B.
- Güida Jorge A., s. Dennehy Mariana
- Haager Markus, s. Pinter Gerald
- Habibi Azizollah: Synthesis of Highly Functionalized Isoxazolinediones from One-pot Reaction of Alkylidene *Meldrum*'s Acid with Alkyl Isocyanides in the Presence of Arylhydroxylamines 603
- Hager Beate, s. Fendler Karoline
- Hahn Christoph D.: Pragmatic Studies on Protein-Resistant Self-Assembled Monolayers 245
- Hajipour Abdol R.: Deprotection of Thioacetals Using K₂S₂O₈/[bmim]Br as a Mild and Efficient Reagent under Solvent-Free Conditions 569
- Hamdy Nehal A.: Synthesis of Some 1,3-Thiazole, 1,3.4-Thiadiazole, Pyrazolo[5,1-c]- 1,2,4-triazine, and 1,2,4-Triazolo[5,1-c]-1,2,4-triazine Derivatives Based on the Thiazolo[3,2-a]benzimidazole Moiety 1001
- Hannak Renate B.: Synthesis and Structure of Vitamin B₁₂-Derivatives with a Modified Ribose-Unit 899
- Hannongbua Supa, s. Lawtrakul Luckhana
- Hansmeier Antje R., s. Meindersma G. Wytze
- Harigaya Yoshihiro, s. Chakrabarty Manas
- Hasserodt Jens, s. Saaidi Pierre-Loïc
- Hassine Fatima: Task Specific Onium Salts and Ionic Liquids as Soluble Supports in *Grieco*'s Multicomponent Synthesis of Tetrahydroquinolines 1167
- Hawata Mohamed A. M., s. Abdel-Rahman Adel A.-H.
- Heller Eberhard, s. Schmitz Jens
- Helmreich Brigitte, s. Burger Klaus
- Hennig Lothar, s. Burger Klaus
- Heravi Majid M., s. Asadolah Karim
- Heravi Majid M., s. Mojtahedi Mohammad M.
- Heravi Majid M., s. Oskooie Hossein A.
- Heravi Majid M.: Nitration of Aromatic Compounds Catalyzed by Divanadium-Substituted Molybdophosphoric Acid H₅[PMo₁₀V₂O₄₀] 449

- Heravi Majid M.: Selective Acetylation of Alcohols and Amines with Ethyl Acetate in the Presence of H₆[PMo₉V₃O₄₀] as the Catalyst 445
- Heravi Majid M.: Wells-Dawson Type Heteropolyacid Catalyzed Synthesis of Quinoxaline Derivatives at Room Temperature 465
- Hoffmann Rolf-Dieter, s. Zaremba Roman
- Hoffmann Rolf-Dieter, s. Zaremba Vasyl' I.
- Hojati Sevedeh F., s. Mohammadpoor-Baltork Iraj
- Holla Bantwal Shivarama, s. Karthikeyan Mari Sithambaram
- Holzgrabe Ulrike, s. Schmitz Jens
- Hölzl Martin, s. Hahn Christoph D.
- Honarkar Hengameh: Applications of Inorganic Polymeric Materials, III: Polyphosphazenes 923
- Horstmann Sven, s. Wagner Peter
- Horvat Anica, s. Nedeljković Nadežda
- Hossaini Zinatossadat, s. Yavari Issa
- Hosseinzadeh Rahman: Ethylenebis(N-methylimidazolium) Chlorochromate (EBMICC): An Efficient and Selective Reagent for the Oxidation of Thiols to Disulfides 871
- Hubinská Katarína, s. Mečiarová Mária
- Hussain Azza A., s. Shalaby Ahmed F. A.
- Hussain Hakkim A., s. Tiwari Vinod K.
- Hut'ka Martin:Pd-Catalyzed α-Allylation of 2-Phenylpropanal and other Carbonyl Compounds with Allyl Alcohol and Allyl Acetates/Carbonates in Ionic Liquids 1175
- Ibrahiem Alhusain A., s. Abd El-Latif Nehad A.
- Iglesias Miguel, s. Goenaga José M.
- Ikeda Yasuhisa, s. Kozonoi Nobuyuki
- İlhan Salih, s. Temel Hamdi
- Imhof Wolfgang, s. Gillies Glenn
- Imlinger Nicolas C.: Modeling the Kinetics of Hydrosilylation Based Polyaddition 285
- Ivanovici Sorin: Coordination Behavior of Acetoacetate Ligands with Attached Methacrylate Groups Containing Alkyl-Spacers of Different Length to Titanium and Zirconium Alkoxides 529
- Jäger Andreas, s. Stangl Klaus
- Jørgensen Per T., s. Therkelsen Frans
- Jagerovic Nadine, s. Silva Vera L. M.
- Janeschitz-Kriegl Hermann: An Unusual but Consistent View on Flow Induced Crystallization of Polymers 327
- Jankauskas Vygintas, s. Getautis Vytautas
- Jankauskas Vygintas, s. Stumbraite Jolanta
- Javadi Negar M., s. Heravi Majid M.
- Jeanneau Erwann, s. Saaidi Pierre-Loïc
- Jeanneret-Gris Julie, s. Simone Jean-Mary
- Jelska Katarzyna, s. Pałasz Aleksandra

Jia Dingxian: New Selenidogermanates with Transition-Metal Complexes as Counterions: Solvothermal Synthesis, Crystal Structures, and Properties of [Mn(en)₃]₂Ge₂Se₆ and [Fe(dien)₂]₂Ge₂Se₆ 191

Jiang Heng, s. Wang Min

Jiménez Pilar, s. Ros Francisco

Jirandehi Hasan Fathinejad, s. Mobinikhaledi Akbar Johnson Keith E.: Brønsted Acids in Ionic Liquids: Fundamentals, Organic Reactions, and Comparisons 1077

Joshi Neeta S. s. Bandgar Babasaheb P.

Juusola Pekka: Determination of the Dissociation Constants of Urocanic Acid Isomers in Aqueous Solutions 951

Kaiser Marcel, s. Seebacher Werner

Kalembkiewicz Jan: Studies on the Distribution of Phenoxyacetic Acid in Two-Phase Systems: *n*-Aliphatic Hydrocarbon – Water 849

Kalinowska-Tłuścik Justyna, s. Machaj Małgorzata Kalluraya Balakrishna, s. Karthikeyan Mari Sithambaram

Kalychak Yaroslav M., s. Zaremba Vasyl' I.

Kappaun Stefan, s. Zelzer Mischa

Kargar Hadi, s. Moghadam Majid

Karimi Elham, s. Yavari Issa

Karmakar Sulakshana, s. Chakrabarty Manas

Karthikeyan Mari Sithambaram: Biological Studies of Some 2,4-Dichloro-5-fluorophenyl Containing Triazolothiadiazoles 1309

Kasem Eman R., s. Abdel-Rahman Adel A.-H.

Kassaee Mohammad Z.: Detours for Reaching at New Germylenes, Silylenes, Carbenes, and Carbenogermylenes through Substituted Cyclopropenylidenes at *Ab initio* and DFT Levels 833

Katiyar Diksha, s. Tiwari Vinod K.

Kato Lucília, s. Cunha Silvio

Kavutcu Mustafa, s. Çolak Naki

Kermani Toktam, s. Alizadeh Mohammad H.

Kern Wolfgang, s. Griesser Thomas

Kern Wolfgang, s. Weinberger Martin R.

Khalaf Hussein A.: Phosphated Alumina Catalysts: Surface Properties and Reactivity towards 2-PrOH Decomposition 641

Khaledi Hamid, s. Hosseinzadeh Rahman

Khanalizadeh Golriz, s. Aghapoor Kioumars

Khattab Ahmed F., s. El-Essawy Farag A.

Khosropour Ahmad R., s. Mohammadpoor-Baltork Iraj

Kiani Shadi, s. Dabiri Minoo

Kickelbick Guido, s. Ivanovici Sorin

Kisch Horst, s. Macyk Wojciech

Klaib Sami, s. Al-Said Naim H.

Klampfl Christian, s. Hahn Christoph D.

Ko Ju Hong, s. Lee Do-Min

Koch Burkhard, s. Mečiarová Mária

Koch Thomas: Mechanical Properties of Organic-Inorganic Hybrid Materials Determined by Indentation Techniques 293

Kogler Franz R., s. Koch Thomas

Kokare Nagnnath D., s. Sangshetti Jaiprakash N.

Konopacka Aleksandra: Medium Effect on the Rotational Isomerism in 1,3,5-Triacetylbenzene 1233

Kotschy András, s. Paczal Attila

Kozonoi Nobuyuki: Extraction Mechanism of Metal Ion from Aqueous Solution to the Hydrophobic Ionic Liquid, 1-Butyl-3-methylimidazolium Nonafluorobutanesulfonate 1145

Kříž Jaroslav: Protonated Tetramethyl p-tert-Butylcalix[4]arene Tetraketone: NMR Evidence and Probable Structures 735

Kräutler Bernhard, s. Hannak Renate B.

Krasodomska Małgorzata: Staudinger Reaction of Schiff Bases of Acetylthiophene and Acetylpyridine with Ketenes. Diastereoselective Synthesis of 4-Heterosubstituted β -Lactams and their Conversion to β -Thiolactams 199

Krell Manfred, s. Imlinger Nicolas C.

Krivokolysko Sergey G., s. Dotsenko Victor V.

Kucharík Marián: Thermal Analysis of the System Na₃AlF₆-NaVO₃ 1211

Kumari Nalilu Suchetha, s. Karthikeyan Mari Sithambaram

Lackner Bernd, s. Hahn Christoph D.

Lackner Roman, s. Stangl Klaus

Laihia Jarmo K., s. Juusola Pekka

Lakouraj Moslem Mansour: Ion Exchange Resin Catalyzed Selective Oxidation of Sulfides to Sulfoxides Using Hydrogen Peroxide 83

Lang Reinhold W., s. Pinter Gerald

Lariucci Carlito, s. Abdel-Rahman Adel A.-H.

Lariucci Carlito, s. Cunha Silvio

Lawtrakul Luckhana: Molecular Dynamics Study on the Unbinding of HBY 097 in the K103N Mutant RT 1029

Lee Do-Min: Cesium Carbonate-Mediated Reaction of Dichloronaphthoquinone Derivatives with O-Nucleophiles 741

Lee Donald G., s. Shaabani Ahmad

Lee Kee-In, s. Lee Do-Min

Leidl Manuela, s. Wagner Daniel

Leino Lasse, s. Juusola Pekka

Leitner Christa, s. Hahn Christoph D.

Lévêque Jean-Marc: Synthesis of Ionic Liquids Using Non Conventional Activation Methods: An Overview 1103

Li Jian-Jiong, s. Zhang Zhan-Hui

Li Tong-Shuang, s. Zhang Zhan-Hui

Lightner David A., s. Dey Sanjeev K.

Lightner David A., s. Salzameda Nicholas T.

Lin Jin: ZrCl₄-Catalyzed Efficient Synthesis of Enaminones and Enamino Esters under Solventfree Conditions 77

Linert Wolfgang, s. Soliman Ahmed A.

Liska Robert, s. Schuster Monika

Litvinov Victor P., s. Dotsenko Victor V.

Liu Ye, s. Cai Yueqin

Liu Zu-Liang, s. Gong Kai

Loiseau François, s. Simone Jean-Mary

Loiseau François: Radical Couplings as Key Steps for the Preparation of Derivatives of Nonactic Acid 121

Loose Jutta, s. Elriati Ali

Luf Wolfgang, s. Rossmann Birgit

Macedo Jr. Fernando C., s. Cunha Silvio

Machaj Malgorzata: Succinonitrile Activated by Thiating Agents as Precursor of Bis-cyclic Amidines, Tectons for Molecular Engineering 1273

Macyk Wojciech: Photoassisted Catalytic Oxidation of Carbon Monoxide at Room Temperature 935

Maes Guido, s. Konopacka Aleksandra

Makrlík Emanuel, s. Dybal Jiří

Makrlík Emanuel, s. Kříž Jaroslav

Maleki Ali, s. Shaabani Ahmad

Malinauskas Tadas, s. Getautis Vytautas

Mandolesi Sandra D., s. Dennehy Mariana

Mansour Seham A. A., s. Khalaf Hussein A.

Marcucci Eleonora: Stereodivergent Baylis-Hillman Reaction of a Chiral Acryloyl Imide Exploiting Ion-Chelation Effect: Mechanistic Insight on the Rearrangement of Trichloroacetimidates of the Baylis-Hillman Adducts to Trichloroacetamides 27

Marković Zoran S., s. Dimitrić Marković Jasmina M.

Martelli Gianluca, s. Marcucci Eleonora

Mateos Alexander, s. Schuster Monika

Matović Zoran D.: Synthesis and DFT Defined trans(O₅O₆) Molecular Structure of Cs[Fe(1,3pddadp)] • 2H₂O. Strain Analysis and Spectral Assignment of the Complex 823

Meĉiarová Mária: Stereoselective Michael Addition of Carbonyl Compounds to (E)-β-Nitrostyrene Catalysed by N-Toluensulfonyl-L-proline Amide in Ionic Liquids 1181

Meindersma G. Wytze: Application of Task-specific Ionic Liquids for Intensified Separations 1125

Mekhemer Gamal A., s. Khalaf Hussein A.

Menezes Diego, s. Cunha Silvio

Metwally Mohamed A., s. Abdel-Latif Ehab

Miletić Vesna D., s. Matović Zoran D.

Minkkinen Pentti, s. Juusola Pekka

Mirkhani Valiollah, s. Moghadam Majid

Mirkhani Valiollah: Biomimetic Alkene Epoxidation and Alkane Hydroxylation with Sodium Periodate Catalyzed by Mn(III)-salen Supported on Amberlite IRA-200 1303

Mishra Bhuwan B., s. Tiwari Vinod K.

Mishra Nisha, s. Chaturvedi Devdutt

Mishra Virendra, s. Chaturvedi Devdutt

Mitragotri Satish D., Desai Uday V.

Mobinikhaledi Akbar: A Simple Reduction Method of Azo-Compounds to Amines Using Fe Powder in the Presence of NH₄Cl 755

Moghadam Majid, s. Mirkhani Valiollah

Moghadam Majid: Rapid and Efficient Synthesis of Imidazolines and Bisimidazolines Under Microwave and Ultrasonic Irradiation 579

Mohamed Ashraf M., s. Abdel-Latif Nehad A.

Mohammadpoor-Baltork Iraj, s. Moghadam Majid

Mohammadpoor-Baltork Iraj: Mild and Efficient Synthesis of Benzoxazoles, Benzothiazoles, Benzimidazoles, and Oxazolo[4,5-b]pyridines Catalyzed by Bi(III) Salts Under Solvent-Free Conditions 663

Mohanazadeh Farajollah: Ionic Liquids as Reagent and Reaction Medium: Preparation of Alkyl Aryl

Ethers 47

Mohanazadeh Farajollah: Reductive Amination of Aldehydes and Ketones with 2-(Tributylamino)ethoxyborohydride 1187

Mohsenzadeh Farshid, s. Aghapoor Kioumars

Mojtahedi Mohammad M.: Additive-Free Chemoselective Acylation of Amines and Thiols 95

Mongin Olivier, s. Papamicaël Cyril A.

Mostafavi Majid, s. Hajipour Abdol R.

Motamedi Elaheh, s. Kassaee Mohammad Z.

Mousavifar Leyla, s. Habibi Azizollah

Movassagh Barahman: Zinc-Mediated Cleavage of Diselenides: A Novel Synthesis of Selenoformates in Aqueous Media 863

Mukherjee Ratna, s. Chakrabarty Manas

Müller-Buschbaum Klaus: ${2 \over \infty}[Yb_2(NH_2)_2(Pz)_4]$ $[Yb(NH_3)_2(Pz)_3PzH]$: Electride Induced Synthesis of a 2D-Ytterbium-Pyrazolate Network 813

Müller Norbert, s. Hahn Christoph D.

Müller Ralf M., s. Rosiak Anna

Müller Uwe, s. Braun Juliane

Musavi Seyed M., s. Kassaee Mohammad Z.

Naderi Soheila, s. Shaabani Ahmad

Napolitano Hamilton B., s. Cunha Silvio

Nedeljković Nadežda: One-step Bioluminescence ATPase Assay for the Evaluation of Neurotoxic Effects of Metal Ions 253

Neier Reinhard, s. Loiseau François

Neier Reinhard, s. Simone Jean-Mary

Nielsen Claus, s. Therkelsen Frans

Nikcheh Maryam S., s. Dabiri Minoo Nobre Costa Giselle A., s. Cunha Silvio Nohman Ahmed K., s. Khalaf Hussein A. Nurlu Nilhan, s. Colak Naki

Obaid Abdulla Y., s. El-Mossalamy El-Sayed H. Oleksyn Barbara, s. Machaj Małgorzata Omar Ahmed A., s. Youssef Mohamed Salah K. Orena Mario, s. Marcucci Eleonora

Oskooie Hossein A., s. Heravi Majid M.

Oskooie Hossein A.: An Efficient and Facile Synthesis of Quinoxaline Derivatives Catalyzed by KHSO₄ at Room Temperature 875

Osman Fayez H.: The Behavior of 3,3-Diphenylindan-1,2-dione Towards Phosphonium Ylides 545

Osman Fayez H.: The Behavior of 3,3-Diphenylindan-1,2-dione Towards Alkyl Phosphites 973

Ostrowska Katarzyna, s. Machaj Małgorzata Otto Hans-Hartwig, s. Elriati Ali

Özdemir İsmail: Transfer Hydrogenation of Ketones Catalyzed by 1-Alkylbenzimidazole Ruthenium(II) Complexes 205

Özgün Beytiye: 4-Benzylpyridinium Fluorochromate: An Efficient and Selective Oxidant for Organic Substrates 161

Ożóg Monika, s. Pałasz Aleksandra

Pach Małgorzata, s. Machaj Małgorzata

Paczal Attila: Asymmetric Synthesis in Ionic Liquids 1115

Pagni Richard M., s. Johnson Keith E. Pajak Joanna, s. Konopacka Aleksandra

Palasz Aleksandra: 5-Arylidene Derivatives of *Meldrum*'s Acid as Synthons in Pyrano[4,3-b]pyran

Synthesis 481

Papamicaël Cyril A.: Synthesis of C_1 - and $C_{3\nu}$ -Symmetric Porphyrin Trimers Based on Triphenylmethane Cores 791

Pawełka Zbigniew, s. Konopacka Aleksandra

Pedersen Erik B., s. Therkelsen Frans

Petrović Biljana, s. Rosić Jovana

Pinter Gerald: A Test Concept for Lifetime Prediction of Polyethylene Pressure Pipes 347

Pinto Diana C. G. A., s. Silva Vera L. M.

Piro Oscar E., s. Dennehy Mariana

Pitak Mateusz, s. Budzowski Artur

Pore Dattaprasad M., Desai Uday V.

Pöttgen Rainer, s. Sebastian C. Peter

Pöttgen Rainer, s. Zaremba Roman

Pöttgen Rainer, s. Zaremba Vasyl' I.

Pourjavadi Ali, s. Salimi Hamid

Puchberger Michael, s. Ivanovici Sorin

Pucheault Mathieu, s. Hassine Fatima

Puschmann Christiane, s. Spreitzer Helmut

Quinzani Oscar V., s. Dennehy Mariana Quitmann Catharina C., s. Müller-Buschbaum Klaus

Rad Jafar Mogimi, s. Shaabani Ahmad

Rahimi Azam, s. Honarkar Hengameh

Rahimi Azam, s. Salimi Hamid

Rahmati Abbas, s. Shaabani Ahmad

Rath Thomas, s. Griesser Thomas

Rathelot Pascal, s. El-Kashef Hussein

Rault Sylvain, s. El-Kashef Hussein

Rebelo Luis Paulo N., s. Visak Zoran P.

Reimann Eberhard: Synthesis of 2,3-cis Stereomeric Emetamines via Reissert Compounds 211

Rentenberger Stephan, s. Weinberger Martin R.

Renz Manfred, s. Reimann Eberhard

Resa José M., s. Goenaga José M.

Rezayan Ali Hossein, s. Shaabani Ahmad

Rinaldi Samuele, s. Marcucci Eleonora

Rodewald Ute Ch., s. Zaremba Roman

Rodewald Ute Ch., s. Zaremba Vasyl' I.

Rodrigues Jr. Manoel T., s. Cunha Silvio

Ros Francisco: The Potential Energies of Cohesion of a Crystalline Organic Enantiomer and the Racemate; on the Energy for the Liquid Racemate [1] 941

Rosiak Anna: Synthesis of 2,3-Dihydrothiopyran-4ones from 3-Oxo-1-pentene-4-ynes 13

Rosić Jovana: Thermodynamic and Kinetic Studies on Reactions of Pt(II) Complexes with Pyrazole, Pyridazine, and 1,2,4-Triazole 1

Rossmann Birgit: MS-MS Fragmentation Patterns of Cholesterol Oxidation Products 437

Rostami Abbas Ali: Densities, Viscosities, and Excess Gibbs Energy of Activation for Viscous Flow, for Binary Mixtures of Dimethyl Phthalate (DMP) with 1-Pentanol, 1-Butanol, and 1-Propanol at Two Temperatures 967

Roux María Victoria, s. Ros Francisco

Roy Chandra D.: A Comparative Study of the Relative Stability of Representative Chiral and Achiral Boronic Esters Employing Transesterification 879

Roy Chandra D.: A Study of Transesterification of Chiral (-)-Pinanediol Methylboronic Ester with Various Structurally Modified Diols 747

Ruoho Arnold E., s. Hajipour Abdol R.

Saaidi Pierre-Loïc: Insights into the Formation of Symmetrical Trimers of Dialkylated Ketenes Starting from Acid Chloride Precursors 1011

Sabbaghan Maryam, s. Yavari Issa

Sabry Nermien M., s. Abdel-Latif Nehad A.

Sabry Nermien M., s. Amr Abd El-Galil E.

Sá Fernando P., s. Cunha Silvio

Saf Robert, s. Griesser Thomas

Saf Robert, s. Seebacher Werner

Sahin Neslihan, s. Özdemir İsmail

Salehi Peyman, s. Dabiri Minoo

Salimi Hamid: Applications of Polymeric Reagents in Organic Synthesis 363

Salzameda Nicholas T.: Intramolecular Hydrogen-Bonding in a C(10)-Exploded Bilirubinoid 237

Samhaber Wolfgang M., s. Wutzel Harald

Sangshetti Jaiprakash N.: Zirconyl(IV) Chloride Catalyzed Three Component One-pot Synthesis of Quinazolin-4(3H)-ones 1289

Schmidt Harald, s. Wagner Daniel

Schmitz Jens: A Fast and Efficient Track to Allosteric Modulators of Muscarinic Receptors: Microwave-Assisted Syntheses 171

Schubert Ulrich, s. Casarin Maurizio

Schubert Ulrich, s. Koch Thomas

Schulz Peter S., s. Bösmann Andreas

Schuster Monika: Evaluation of Biocompatible Photopolymers II: Further Reactive Diluents 261

Schwarzinger Clemens, s. Wagner Daniel

Sebastian C. Peter: The Stannides YNi_xSn₂ (x = 0, 0.14, 0.21, 1) – Syntheses, Structure, and ¹¹⁹Sn Mössbauer Spectroscopy 381

Seebacher Werner: Antiprotozoal Activities of Epimeric Aminobicycles 709

Seebacher Werner: New 4-Amino-2-azabicyclo[3.2.2]nonane Derivatives and their Antiprotozoal Potencies 619

Seidler Sabine, s. Koch Thomas

Selucký Pavel, s. Dybal Jiří

Şendil Kıvılcım, s. Özgün Beytiye

Serda Paweł, s. Krasodomska Małgorzata

Serda Paweł, s. Pałasz Aleksandra

Shaabani Ahmad: An Easy One-Pot Procedure for the Synthesis of N-Sulfonyl Phosphorous Ylides and Sulfonyl Iminophosphoranes 553

Shaabani Ahmad: Green Oxidations. Manganese(II)
Sulfate Aided Oxidations of Organic Compounds
by Potassium Permanganate 649

Shaabani Ahmad: Ionic Liquid Promoted One-Pot Synthesis of Furo[2,3-d]pyrimidine-2,4(1H,3H)diones 43

Shaabani Ahmad: Ionic Liquid Promoted One-Pot Three-Component Reaction: Synthesis of Annulated Imidazo[1,2-a]azines Using Trimethylsilylcyanide

Shaabani Ahmad: One-Pot Three-Component Synthesis of 3-Aminoimidazo[1,2-a]pyridines and -pyrazines in the Presence of Silica Sulfuric Acid 73

Shaabani Ahmad: One-step Synthesis of 3,4-Dihydrobenzimidazo[2,1-b]quinazolin-1(2H)- ones in an Ionic Liquid 615 Shabaan Mohamed T., s. Abdel-Rahman Adel A.-H.

Shalaby Ahmed F. A.: Synthesis, Reactions, and Antiarrhythmic activity of Substituted Heterocyclic Systems Using 5-Chloroanisic Acid as Starting Material 1019

Shallal Hassan M., s. El-Sadek Mohamed E.

Sharifi Masoumeh, s. Shaabani Ahmad

Sharifi Mostafa, s. Rostami Abbas Ali

Shinde Devanand B., s. Sangshetti Jaiprakash N.

Silva Artur M. S., s. Barros Ana I. R. N. A. Silva Artur M. S., s. Silva Vera L. M.

Silva Priscila de O., s. Cunha Silvio

Silva Vera L. M.: Synthesis and Pharmacological Evaluation of Chlorinated N-Alkyl-3- and -5-(2-hydroxyphenyl)pyrazoles as CB₁ Cannabinoid Ligands 797

Šimko František, s. Kucharík Marián

Simone Jean-Mary, s. Loiseau François

Simone Jean-Mary: Malonylation/Decarbalkoxylation of Furan Derivatives as Key Steps for the Preparation of Nonactic Acid Derivatives. Part I 131

Simone Jean-Mary: Malonylation/Decarbalkoxylation of Furan Derivatives as Key Steps for the Preparation of Nonactic Acid Derivatives. Part II 141

Singh Archana, s. Tiwari Vinod K.

Sinkeviciute Giedre, s. Getautis Vytautas

Slugovc Christian, s. Zelzer Mischa

Soleimani Ebrahim, s. Shaabani Ahmad

Soliman Ahmed A.: Structural Features of ONS-Donor Salicylidene Schiff Base Complexes 175

Song Zhi-Guo, s. Wang Min

Spengler Jan, s. Burger Klaus

Spreitzer Helmut: Synthesis of Anticancer Compounds, I, "Dual Function" Antitumor Agents Based on Bioreduction and DNA-Alkylation 517

Stadnicka Katarzyna, s. Budzowski Artur

Stampfl Jürgen, s. Schuster Monika

Stangl Klaus: The Effect of Styrene-Butadiene-Styrene Modification on the Characteristics and Performance of Bitumen 301

Stanisauskaite Albina, s. Getautis Vytautas

Stecher Harald, s. Griesser Thomas

Stumbraite Jolanta, s. Getautis Vytautas

Stumbraite Jolanta: Synthesis of Aryl(hetero)methylene-1,3-indandione Based Molecular Glasses 1243

Szlachta Jolanta, s. Kalembkiewicz Jan

Taha Mamdouh A. M. Synthesis of Condensed and Uncondensed Tetrazolo[1,5-b][1,2,4]triazines as Potential Antimicrobial Agents 505

Taheri Azam, s. Mohanazadeh Farajollah

Taheri Shima, s. Oskooie Hossein A.

Tajbakhsh Mahmood, s. Hosseinzadeh Rahman

Tajbakhsh Mahmood, s. Lakouraj Moslem Mansour

Tampé Robert, s. Hahn Christoph D.:

Tangestaninejad Shahram, s. Mirkhani Valiollah Tangestaninejad Shahram, s. Moghadam Majid

Tashakkorian Hamed, s. Lakouraj Moslem Mansour

Tayebee Reza, s. Alizadeh Mohammad H.

Tayebee Reza: Water as an Efficient Solvent for Oxygenation Transformations with 34% Hydrogen Peroxide Catalyzed by some Heteropolyoxometalates 763

Tehrani Maryam H., s. Heravi Majid M.

Temel Hamdi: Spectroscopic and Electrochemical Studies of Transition Metal Complexes with N,N'-Bis(2-aminothiophenol)-1,7-bis(2-formylphenyl)-1,4,7-trioxaheptane and Structure Effects on Extractability of Ligand towards some Divalent Cations 1199

Tewari Neetu, s. Tiwari Vinod K.

Therkelsen Frans: New Emivirine (MKC-442) Analogues Containing a Tetrahydronaphthalene at C-6 and their Anti-HIV Activity 495

Thopate Takaram S., Desai Uday V. Thurner Karin, s. Rossmann Birgit

Tinazli Ali, s. Hahn Christoph D.

Tiwari Vinod K.: One-pot Amberlite IR-120 Catalysed Synthesis of Glycosyl Dihydropyridones 1297

Tiwari Vinod K.: One-Pot Convenient and High Yielding Synthesis of Dithiocarbamates 653

Todorovsky D., s. Getsova M.

Toma Štefan, s. Hut'ka Martin

Toma Štefan, s. Mečiarová Mária

Trimmel Gregor, s. Griesser Thomas

Tripathi Rama P., s. Tiwari Vinod K.

Tripathi Vyasji, s. Tiwari Vinod K.

Turecek Claudia, s. Schuster Monika

Vakilzadeh Yasamin, s. Dabiri Minoo Vanelle Patrice, s. El-Kashef Hussein Vannier-Santos Marcos A., s. Cunha Silvio

Vañura Petr, s. Dybal Jiří

Vanura Petr, s. Kříž Jaroslav

Varga Franz, s. Schuster Monika

Vasiljev Roman, s. Kucharík Marián

Vasojević Miorad M., s. Matović Zoran D.

Vaultier Michel, s. Hassine Fatima

Vencato Ivo, s. Cunha Silvio

Verde Rosival B. V., s. Cunha Silvio

Visak Zoran P.: Ionic Liquids in Polyethylene Glycol Aqueous Solutions: Salting-in and Salting-out Effects 1153

Vittadini Andrea, s. Casarin Maurizio

Voelter Wolfgang, s. Abu Safieh Kayed A.

Wadgaonkar Prakash P., Desai Uday V.

Wagner Daniel: Particleboards from Acetylated Wood Flakes 321

Wagner Peter: Phase Equilibrium Data for the Binary System Dinitrogen Monoxide+Propane 637

Wang Hua-Lan, s. Gong Kai

Wang Min: Tetrahydropyranylation of Alcohols and Phenols Using the Synergistic Catalyst System Copper(II) Chloride-Acetic Acid 599

Wasserscheid Peter, s. Bösmann Andreas

Wawer I., s. Getsova M.

Weinberger Martin R.: Selective Immobilization of Gold Nanoparticles on the Surface of a Photoreactive Polymer 309

Weinstabl Harald C., s. Binder Wolfgang H.

Weis Robert, s. Seebacher Werner

Wołek Aneta, s. Machaj Małgorzata

Wurst Klaus, s. Hannak Renate B.

Wutzel Harald: Exploring the Limits of Emulsion Polymerization of Styrene for the Synthesis of Polymer Nanoparticles 357

Yakout El-Sayed M. A., s. Boulos Leila S.

Yavari Issa, s. Habibi Azizollah

Yavari Issa: A Synthesis of Dialkyl Phosphorylsuccinates from the Reaction of NH-Acids with Dialkyl Acetylenedicarboxylates in the Presence of Trialkyl(aryl) Phosphites 1267

Yavari Issa: An Efficient Synthesis of Trialkyl N-Alkyl-6-methyl-2-pyridone-3,4,5-tricarboxylates 787

Yavari Issa: Reaction of N-Heterocycles with Acetylenedicarboxylates in the Presence of *N*-Alkylisatins or Ninhydrin. Efficient Synthesis of Spiro Compounds 677

Yavari Issa: Synthesis and Dynamic NMR Study of Functionalized 1-(3-Furyl)-1*H*-indole-2,3-diones

Yaylaoglu Ayşe, s. Özgün Beytiye

Yazdanbakhsh Mohammad R., s. Habibi Azizollah

Yıldırır Yılmaz, s. Çolak Naki

Yılmaz İsmail, s. Temel Hamdi

Yousefi Behrooz H, s. Moghadam Majid

Youssef Mohamed Salah K.: Synthesis and Reactions of 5-Amino-3-(3-methyl-5-oxo-1-phenyl-2- pyrazo-lin-4-yl)-7-phenyl-7*H*-thiazolo[3,2-*a*]pyrimidine-6-carbonitrile 989

Zabrzeńska Anna, s. Machaj Małgorzata

Zare Hasan, s. Yavari Issa

Zaremba Roman: Rare Earth-Rich Indides RE₅Pt₂In₄ (RE = Sc. Y, La-Nd, Sm, Gd-Tm, Lu) 819

Zaremba Roman: The Rare Earth Metal-Rich Indides RE₄RhIn (RE = Gd−Tm, Lu) 523 Zaremba Vasyl' I.: Syntheses and Structure of $Er_6Co_{2,19(1)}In_{0,81(1)}$ 101

Zelzer Mischa: Synthesis and Photo Physical Properties of 9,10-Bis(hydroxyphenyl)anthracene Derivatives 453

Zhang Li-Feng, s. Lin Jin

Zhang Yong, s. Jia Dingxian

Zhang Zhan-Hui: A Highly Effective Sulfamic Acid/ Methanol Catalytic System for the Synthesis of Benzimidazole Derivatives at Room Temperature 89

Zhu Aimei, s. Jia Dingxian

Ziyadanoğulları Berrin, s. Temel Hamdi

Zojer Egbert, s. Zelzer Mischa

Zurawski Alexander, s. Müller-Buschbaum Klaus

Subject Index

Ab initio calculations 725, 833 Absorption spectra 453, 1225 Acetates 867 Acetic acid 599 Acetylation 95, 321, 445, 867 Acetylenedicarboxylates 677 Acetylenic esters 787, 1267 Acid catalysis 1167 Acidity 641, 951 Acrylates 1163 Acylation 899 Additive 149, 985 Adsorption 245 Alcohols 57, 149, 161, 165, 403, 445, 599, 967, 985, 1187 Aldehydes 595, 759, 1163 Alkaloids 211 Alkanedinitrile 1273 Alkanethiol 245 Alkoxynaphthoquinone 741 Alkyl(aryl) isocyanides 107 Alkylations 47, 171, 517, 619 Alkylidene Meldrum's acid 603 N-Alkylisatins 677 Alkyl isocyanide 603, 787 Alkyl phosphites 973 N-Alkyl-2-pyridone 787 Alkynes 13, 791 α-Allylation 1175 Alum 997, 1253 Alumina 641 Aluminum 1225 Aluminum electrolysis 1211 Amberlite IR 120 resin 1297 Amberlite IR-400 83 Amberlyst 15 83 Amides 813 Amidine base 653 Amine adducts 1217 Amines 95, 653, 755, 759, 1289 Amino acid esters 1283 α-Amino acids 909 Amino alcohols 619 2-Aminobenzimidazole 615 p-Aminobenzoic acid 1283 3-Aminoimidazo[1,2-a]azine 51 3-Aminoimidazo[1,2-a]pyrazine 73 3-Aminoimidazo[1,2-a]pyridine 73 α-Aminonitriles 759 Aminopolycarboxylates 823

3-Amino-2-thioxo-2,3-dihydro-1*H*-quinazolin-4-one 153 Ammonium chloride 755 Analgesics 559, 715, 1309 Anions 1103 Anthranilic acid 1289 Anti-arrhythmic activity 1019 Antibacterial 823 Anticonvulsants 559 Antiinflammatory 699 Antimicrobial 505, 1309 Antiparkinsonian 715 Antiplasmodial 619 Antitrypanosomal 619 Antitubercular 1309 Antitumor agents 517 Aqueous PEG solutions 1153 Aqueous solubility 687 Arene 649 Aromatic substitution 449 Aromatic/aliphatic hydrocarbon separation 1125 Aryl aldehydes 1279 1-Aryl-4,4-difluoro-3-(trifluoromethyl)but-3-en-1-ones 227 Arylhydroxylamine 603 2-Aryl-4-hydroxyquinolines 585 2-Arylquinolines 585 Aza-Wittig reaction 553 6-Azido-1,3-dimethyuracil 777 Azo-compounds 755 Azoles 1 Ball-milling 771

Baylis-Hillman reaction 27, 1163 Benzimidazole ligands 205 Benzimidazoles 89, 663, 1279 Benzo[a]quinolizinones 211 Benzothiazoles 663 Benzotriazole 653 Benzoxazoles 663 Benzoylthioureas 511 4-Benzylpyridinium fluorochromate 161 Bi(III) salts 663 Bicyclic compounds 709 Biocompatibility 261 Bioluminescence ATPase assay 253 Biomedical 923 Bioorganic chemistry 495 Biosensors 245 Bis-(1,4,5,6-tetrahydropyrimidin-2-yl)alkane 1273 Bis(4,5-dihydro-1*H*-imidazol-2-yl)alkane 1273 *Bischler* reaction 157

Bis(cycloamidinium-2-yl)alkane salt 1273

Bis-lexitropsin 573

Bis(triphenylphosphine)iminium 669

[bmim]Br 43

Bone Tissue Engineering 261

Boronic esters 747, 879 *Brønsted* acids 1077

Bridged 3-(trifluoromethyl)furans 227

1-n-Butyl-3-methylimidazolium bromide 51

Calixarenes 541, 735, 1239 Carbamates 57 Carbamation 57 Carbenogermylene 833 Carbohydrates 909 Carbon dioxide 57 Carboxylic acid 849 Catalysis 653, 763 Catalysts 47, 449, 1163, 1195 Catalytic 165 Cation exchange 1145 Cations 1103 CB₁ cannabinoid receptors 797 Cerium 389 Cesium carbonate 741 C-F bond activation 227 C-H activation 683 Chalcones 889 Charge mobility 1243 Chelation 27 Chiral auxiliaries 879 Chiral imide 27 Chirality 791, 941, 1137 1-Chloro-2,3-epoxypropane 477 2-Chloroacetoacetates 787 5-Chloroanisic acid 1019 Chloroformates 863 Chloropyrazoles 797 cis-Emetamines 211 Citrazinic acid 699 Clusters 293 CO₂ absorption 1125 Cobalt-complex 899 Cofactor, Spectroscopy 899 Cohesion energy 941 Colloids 357 Complex formation 853, 1225 Compounding 343 Configuration 709 Conformational equilibrium 1233

Conformational isomerism 1045

Coordination chemistry 529, 1217

CO oxidation 935
Copper chloride 599
Coumarins 997
Crosslinking 337
Crystal chemistry 101, 523, 819
Crystallization kinetics 327
CuSO₄ 867
Cyanoacetylpyrazole 607
Cyclic β-diketone 615
Cyclic amidrazones 505
Cyclizations 13, 35, 111, 149, 489, 607, 985, 1001, 1293
[4+1] Cycloaddition 227
Cycloadditions 1011
Cyclocondensation 477
Cytosine 917

Cytosine 917 DCC 1283 Decarbalkoxylation 141 Decarboxylation 269 Delphinidin 1225 Density 967 2'-Deoxyisocytidine 917 Deprotection 569 Design of ionic liquids 1125 DFT calculations 541, 725, 735, 823, 833, 1217. 1233, 1239 3,7-Diazabicyclo[3.3.1]nonanes 489 [1,4]Diazepines 469 Diazines 1 Diazonium salt 153 Dibenzoylacetylene 107 1,3-Dicarbonyl compounds 77 Dichloronaphthoquinone 741 N,N'-Dicyclohexylcarbodiimide 909 1,4-Dihydropyridine-2-thiolates 35 Dihydropyridones 1297 2,3-Dihydroquinazolinone 1191 1,2-Diketones 465, 875 Dimethyl phthalate 967 Diols 747, 879 1,1'-Diphenyl-1,2,3,4,1',2',3',4'-octahydro-6,6'-biquinolinyl-3,3'-diol 1293 1,2-Diphenylhydrazine 477 3,3-Diphenylindan-1,2-dione 545, 973 1,2-Diphenylpyrazolidin-4-ol 477 1,3-Dipolar cycloaddition-reactions 315 Dipole moments 1233 Diselenides 863 Disperse dyes 153 1,3-Dithiane 569 Dithiocarbamates 653 1,3-Ditholane 569

DMAP 1283

DNA 517 Drug research 495 Dynamic NMR 107

East African sleeping sickness 709 Elastase inhibitors 627 Elastomers 923 Electrides 813 Electrochemical studies 1199 Electrophotography 277 Emivirine analogues 495 B-Enamino esters 77 Enaminones 111 **B-Enaminones** 77 Enantiomeric resolution 1137 Enantioselectivity 1181 Enol ethers 481 Enones 13 Environmentally benign 771 Enzymes 1137 Epichlorohydrin 1293 Epoxidation 1303 Epoxides 277 Equation of state 637 Equilibrium 849 Esterification 165 Ethers 47 Ethyl acetate 445 Ethylenebis(N-methylimidazolium) chlorochromate Experimental 637

Factor analysis 285
Fastness properties 153
Fatigue 347
Fe powder 755
Ferrocene 277
Fluorescence spectroscopy 453
4-Fluorobenzaldehyde 1019
Fracture mechanics 347
Fragmentation pattern 437
Friedländer synthesis 659, 1249
Functionalized ammonium salts 1167
Furan 149
Furo[2,3-d]pyrimidine 43

Extraction 1145, 1199

Extrusion 337

g^E model 637 Gas-solid diazotization 771 Germylene 833 Glycopeptides 909 β-Glycosyl β-amino acid 1297 Gold 309 Green chemistry 47, 95, 1191 Green fluorescent protein 859 Guanine 917

Heavy metal ions 253 Heterocycles 13, 35, 111, 121, 131, 141, 489, 595, 607, 989, 997, 1001, 1167, 1191, 1249, 1253, 1257 N-Heterocycles 677 Heteropolyacid 449, 763 Heteropolyacid H₆P₂W₁₈O₆₂ · 24H₂O 465 Heteropolyoxometalate 165 Hexahydroquinolines 219 High pressure liquid chromatography 437 HIV 495 HIV-1 reverse transcriptase 1029 Homodimeric 573 Homogeneous catalysis 205, 285, 1163 H₅PMo₁₀V₂O₄₀ 449 Hydrazones 277, 477, 505 Hydrazonyl chlorides 1001 Hydrides 1187 Hydrogen bonding 237 Hydrogen peroxide 83, 763 Hydrophobicity 1145 1-Hydroxybenzotriazole 909 Hydroxylation 1303 Hypotensive activity 219 3- and 5-(2-Hydroxyphenyl)-N-alkylpyrazoles 797

Imidazolines 579 Imide formation 171 Iminophosphorane 553 1,3-Indandione 1243 Indides 523, 819 Indium compounds 101 Indole 595 Indole-3-carboxaldehyde 559 Indolylideneimidazolinones 859 Infrared spectra 1233 Interionic interactions 1035 Intermetallics 101, 381 Intermolecular interaction 967 Ionic liquids 43, 51, 569, 615, 1035, 1077, 1103, 1137, 1145, 1153, 1159, 1175, 1181, 1187, 1191, 1195 Ionic network 1035

Ionization potential 1243
Iron oxide nanoparticles 315
Iron(III) complexes 823
IR spectroscopy 285, 669
Isatin 107, 1267
Isocyanide 43, 73
Isocytidine 917
Isocytosine 917

- Isopropanol 641 Isopropenyl acetate 321 Isoxazolinedione 603 Isoxazolines 889
- Ketenes 199, 1011 B-Ketoesters 1297 KHSO₄ 875 Kinetics 1 Kosmotropic and chaotropic salts 1153
- B-Lactam 1-alkanoic acids 627 B-Lactam peptides 627 Lactams 683 B-Lactams 199 Lanthanoid ions 1145 Lanthanoids 813 Latex 357 Light emitting devices 269 Liquid structure 1045 Lithium tetrafluoroborate 759
- Localized structure 1045 Macrocycles 541, 735, 1239 Malaria tropica 709 Malonylation 131 Manganese(III)-salen 1303 Mannich reaction 35, 489 Mannich-type reaction 1195 Mass spectrometry 437 Mechanical properties 261, 343 Mechanism 1 Medicinal chemistry 171 Melamine resin 337 Melt processing 343 Metal catalysis 1115 Metal complexes 175, 191, 389 Metathesis 269 Methotrexate 1283 Methylmelamine resin 321 Michael addition 481, 607, 1001, 1181, 1257 Microhardness 293 Microstructure 301 Microwave irradiation 171, 1103 Microwave-assisted organic synthesis 579 Microwave-assisted synthesis 1011
 - Minor groove 573 Mitsunobu's reagent 57 Mixed addenda heteropolyacids 445 Mixing properties 403 Model comparison 403 Molecular dynamics simulations 1029 Molecular glasses 1243 Monolayers 245

- Morphology 853 Mössbauer spectroscopy 381 MP2 725 Multicomponent reactions 43, 51, 73, 1167 Muscarinic receptor 171
- Nanoparticles 309, 357 Nanostructures 791 Natural-like 131, 141 Natural products 121, 951 Nefidipine 219 Network structures 813 Nicotinic acid 559, 715 Nitration 449 Nitriles 579 2-Nitrochalcones 585 NMR spectroscopy 389, 529, 669, 735, 797 Nonactic acid 121, 131, 141 Non-nucleoside inhibitor 1029 Non-nucleoside reverse transcriptase inhibitors 495 Normal modes 1045 Nucleation by flow 327 Nucleophilic substitution 741 C-Nucleosides 1297
- One-pot reaction 867, 1195 ONS-Donors 175 Organic-inorganic hybrid composites 529 Organocatalysis 1115, 1181 Orthoesters 89, 615 1.3.4-Oxadiazole 777 Oxadiazole 1253 Oxazinone 699 Oxazolo[4,5-b]pyridines 663 Oxidant 161 Oxidation 161, 649, 763, 871 Oxidative coupling 1293 Oxidative cyclisation 157 Oxides 437, 935 Oximated polymer 853 Oxovinylidenetriphenylphosphorane 979 Oxygen nucleophile 741
- Particleboard 321 Pd-catalyzed 1175 Pechmann condensation 997 Periodate 1303 Permanganate 649 Phase diagrams 327, 1211 Phase transformations 941 Phase transitions 327 Phenols 47, 599 Phenoxyacetic acid 849 o-Phenylenediamines 89, 465, 875, 1279

1-Phenyl-1,2-propandione 1-oxime 725 Phenylselenoetherification 149, 985

Phenylthioureas 511 Phosphate 641

Phosphites 1267 Phosphonates 1267

Phosphonium ylides 545

Photocatalysis 935

Photochemistry 269, 309

Photopolymerization 261

Photoswitching 859

Physicochemical analyses 301

Pinanediol 747 Platinum(II) 1

POCl₃ cyclization 1309

Polyaddition 277 Polyester 153

Polymeric cataly

Polymeric catalyst 363 Polymeric reagent 363

Polymerizations 269, 285, 357

Polymer-modified 301 Polyphosphazene 923

Polystyrene 293 Porphyrines 791

Potentiometric titration 951

Prednisolone 699

Protection 67 Proteins 245

Protonation 453, 541, 735, 951, 1239

P₂S₅ 579 PSRK 637

Pyrans 481 Pyrazoles 889 Pyrazolines 715, 889

Pyrazolone 989

Pyrazolotriazines 157 Pyridine-2-thiolates 489, 607

Pyrido[3,2-c]azepines 219

Pyrimidine-4-thiones 111

Pyrimidinone 699

Pyrimidothiazolopyrimidine 989

Pyrroles 683, 687

Pyrrolobenzothienodiazepines 469

Quinazolin-4(3*H*)-ones 979, 1289

Quinazoline 615 Quinoline 659, 1249 Quinoline-*N*-oxides 585

Quinones 517

Quinoxalines 465, 875

Radiationless relaxation 859 Radical couplings 121 Radioligand 797

Rare earth compounds 523, 819

Rat brain 253 Rearrangement 27

Reductions 755, 1187

Reductive coupling reactions 585

Reissert compounds 211

Reusable catalyst 659

Rheology 337

Ruthenium 205, 683

Ruthenium dioxide 935

Salicylidene Schiff bases 175

Salting-out effects 1153

Schiff bases 199

Selective thioamidation 61

Selenidogermanates 191

Selenoformates 863

Self modeling curve resolution (SMCR) 285

Semiconducting supports 935

Semiempirical calculations 453, 1225

Sensors 453

Silica gel supported sodium hydrogen sulfate 659

Silica sulfuric acid 73

Silylene 833

Simulation 1125

Slow crack growth 347

Solid-like 1035

Solid-state reactions 771

Solid-supported reagent 363

Solution phase synthesis 1167

Solvent effects 683, 849, 1125, 1233

Solvent-free 77, 95, 569, 595, 649, 659, 997, 1249, 1253

Solvothermal synthesis 191

Spiro compounds 677, 1011, 1257

Stability 1239

Stability constants 1225

Stannides 381

Staudinger reaction 199

Stereolithography 261

Stereoselection 27

Stereoselectivity 1115

Stoichiometry 1225

Strain analysis 823

Strain analysis 623

Strained molecules 1011

Structure 541

Structure-activity relationships 619, 709

Sulfamic acid/methanol system 89

Sulfides 83, 649, 871

N-Sulfonyl phosphorous ylides 553

Sulfoxide 83

Sulfur compounds 13

Supercritical fluids 1137

- Superparamagnetism 315 Supported catalyst 1303 Surface 309 Surface-modification 315 Surfactants 357 Synaptic plasma membranes 253 Synergistic catalysis 599 Synthesis 89, 363, 573, 687, 923, 1279
- Tautomerisation 725 Tetrahydrobenzothieno[1,4]diazepines 469 Tetrahydropyranylation 599 1,2,3,4-Tetrahydroquinoline 1243, 1293 Tetrapyrrole 237 Tetrazolotriazine heterocycles 505 Thermal analysis 1211 Thermal barrier 859 Thermal degradation 343 Thermal stability 853, 1159 Thermochemistry 389, 403 Thermodynamics 327, 403, 941 Thiazole 771, 989 1,3,4-Thiadiazole 777 Thiazolopyrimidine 989, 1019 Thieno[1,4]diazepines 469 Thioamides 1257 Thio Schiff base 1199 Thio-Pinner's method 1273 2-Thioxopyrimidines 889 B-Thiolactams 199 Thiols 95, 653, 871 Thiopyrimidine 715 Thiosaccharin 669 Thioxopyrimidine 559, 1019 THP ethers 867 Three-component reaction 1267 Titanium 389 Titanium alkoxides 1217 Tosic acid-on-silica gel 1279 Transesterification 445, 529, 747, 879 Transfer hydrogenation 205 Transition metal complexes 1199 Transition metal compounds 529, 1217
- Transthioacetalization 67
 1,3,5-Triacetylbenzene 1233
 1,2,4-Triazole 777
 Triazolopyrimidines 777
 Triazolothiadiazoles 1309
 2,4,6-Trichloro-1,3,5-triazine 67
 Triethyl orthoformate 1289
 3-(Trifluoromethyl)tetrahydrocumaron 227
 Trimethylsilyl cyanide 51, 759
 Triphenylphosphine 677
 Tripodaphyrin 791
 Tris(dialkylamino)phosphines 979
 Two-phase system 849
- Ultrasonic irradiation 579 Ultrasound 1103 α,β -Unsaturated ketone 481 UV-Vis spectroscopy 951
- Vanadium impurities 1211
 Vapor pressure osmometry 237
 Vapor-liquid equilibrium 637
 Vibration 1045
 Vibrational entropy 941
 Virus mutation 1029
 Viscosity 967
- Water 61
 Wells-Dawson 465
 Willgerodt-Kindler reaction 61
 Wood 321
 Wood plastic composites 337, 343
- X-Ray crystallography 545, 687, 973 X-Ray structure 237, 511, 813 X-Ray structure determination 35, 111, 191, 669, 899, 1257
- Ylides 979
- Zinc selenolate 863 Zirconium(IV) chloride 77 ZrOCl₂ catalyst 1289

